

# Panasonic

## BUSINESS

**AW-UE80W** [White Model]  
**AW-UE80K** [Black Model]  
4K Integrated Camera For Indoor Use



**Perfect for a wide range of video production needs, such as recording of reality shows and events**

### **Compact design and quiet operation for smooth integration with the surroundings.**

The compact size and dome shape make the camera's movements virtually unnoticeable. The new direct-drive motor has reduced the operating sound to NC25 or lower. Quiet operation makes the performers less conscious of the presence of the camera during the shooting.

### **Flexible to adapts to various video shooting situations.**

The UE80 supports 4K/60p to render smooth high-resolution video images. With its wide 74.1° angle and optical 24x zoom, the camera captures details clearly even from a distance as well as the entire area from a limited space. It is equipped with many professional features and functions, including FreeD compatibility for connection to connect to AR/VR systems for virtual productions.

### **High quality video transmission with low latency.**

The UE80 supports High Bandwidth NDI®\*1,2 for IP transmission of high-image-quality videos with a low latency, and NDI®|HX\*3,4 for efficient video transmission even with a limited bandwidth, thus realizing stable video streaming. The UE80 offers high security, so it can be used safely in any video shooting.



\*1 NDI® is a new protocol developed by NewTek, Inc. that supports IP video production workflow.

\*2 NDI® is a registered trademark of NewTek, Inc. in the United States and other countries.

\*3 In this instance, NDI® is used to indicate low latency with high bandwidth NDI®, NDI®|HX is used to indicate high efficiency low bandwidth NDI®|HX.

\*4 In the NDI®|HX mode, 4K video signals cannot be output. AW-UE80 supports NDI®|HX\* version 2 and Full HD output.



# Various functions to flexibly adapt to the shooting scene

## Supports SRT\* to ensure secure and stable video streaming



The UE80 supports SRT, a next-generation video transport protocol that works well even with an unstable network environment and that provides robust security.

\* Abbreviation for Secure Reliable Transport

## Supports Popular Output Interfaces

The UE80 supports three output interfaces—3G-SDI, HDMI and IP—so it can be used together with a wide range of devices.



## FreeD compatibility allows for the configuration of an AR/VR system

The UE80 can output commands in conformity with FreeD\* so it can be connected to an AR/VR system.

\*FreeD is a protocol widely used for transmitting camera's tracking information primarily for use with a virtual studio system.

## Useful Software to Simplify Workflow

The UE80 supports various software such as Auto Tracking Software and PTZ Control Center. The software simplifies the shooting workflow using PTZ cameras and reduces the operation and management workloads.

## Other Features

- Optical Image Stabilization (OIS)
- RTMP/RTMPS for direct streaming
- Use of Web GUI for camera control

## Accessories



**Remote Camera Controller  
AW-RP150GJ**  
High operability ensured through touch-panel GUI monitor and a new type of joystick.



**Remote Camera Controller  
AW-RP60GJ**  
Equipped with a GUI menu screen for clear visibility and a joystick for intuitive control.



**Auto Tracking Software Key  
AW-SF100/AW-SF200**  
Face Recognition and Human Body Detection for High Precision and Smooth Tracking Control for Natural-looking Video.



**Visual Preset Software Key  
AW-SF300**  
GUI screen that enables the subject of multiple PTZ Cameras to be switched with a single click of an icon.

# Panasonic®

Panasonic Corporation  
Connected Solutions Company

2-15 Matsuba-cho, Kadoma, Osaka 571-8503 Japan

SP-UE80PEWEB2 202202SP



Factories of AVC Networks Company have received ISO 14001:2004-the Environmental Management System certification. (Except for 3rd party's peripherals.)

## AW-UE80W/K Specifications

Comprehensive																				
Power Requirements	12 V DC (10.8V to 13.2V)(Supplied AC adapter)																			
PoE++	IEEE802.3bt compliant : DC42-57 V (Camera Input)																			
Current Consumption	3.0 A (AC adaptor input), 1.0 A (PoE++ power supply)																			
Mass	Approx. 2.0 kg(4.41 lbs) (excluding ceiling mounting bracket)																			
External dimensions	Width 170.0 mm × Height 211.0 mm × Depth 171.0 mm(6.693 inches x 8.307 inches x 6.732 inches) (Excluding protrusions, cable cover, ceiling mounting bracket)																			
Camera part																				
Image Sensors	1/2.5-type MOS×1																			
Effective Pixels	Approx. 8.49million pixels																			
Lens	Motorized Optical 24x zoom, F1.8 to F4.0 [f=4.12 mm (5/32 inches) to 98.9 mm (3-29/32 inches); 35 mm (1-3/8 inches) equivalent: 25.0 mm (31/32 inches) to 600.0 mm (23-5/8 inches)]																			
Zoom magnification	• Optical zoom: 24 x • i.Zoom UHD 28 x, FHD 36x • Digital extender zoom: 1.4 x, 2 x																			
Angle of View Range	Horizontal angle of view: 74.1° (wide) to 3.3° (tele) Vertical angle of view: 46.0° (wide) to 1.9° (tele) Diagonal angle of view: 81.8° (wide) to 3.8° (tele)																			
Horizontal Resolution	1,500 TV Typ (Center area, UHD mode, wide), 1,000 TV Typ (Center area, FHD mode, wide)																			
Output Format	<table border="1"> <thead> <tr> <th>Format</th> <th>Resolution</th> <th>Frame Rate</th> </tr> </thead> <tbody> <tr> <td>SDI</td> <td>HD</td> <td>1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p(Native), 25p(Native), 23.98p(over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p(Just), 23.98p(Native), 720/59.94p, 50p</td> </tr> <tr> <td rowspan="2">HDMI</td> <td>4K</td> <td>2160/59.94p(Native), 2160/50p(Native), 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native)</td> </tr> <tr> <td>HD</td> <td>1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p(Native), 25p(Native), 23.98p(over59.94p), 1080/24p(Just), 23.98p(Native), 720/59.94p, 50p</td> </tr> </tbody> </table>	Format	Resolution	Frame Rate	SDI	HD	1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p(Native), 25p(Native), 23.98p(over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p(Just), 23.98p(Native), 720/59.94p, 50p	HDMI	4K	2160/59.94p(Native), 2160/50p(Native), 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native)	HD	1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p(Native), 25p(Native), 23.98p(over59.94p), 1080/24p(Just), 23.98p(Native), 720/59.94p, 50p								
Format	Resolution	Frame Rate																		
SDI	HD	1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p(Native), 25p(Native), 23.98p(over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p(Just), 23.98p(Native), 720/59.94p, 50p																		
HDMI	4K	2160/59.94p(Native), 2160/50p(Native), 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native)																		
	HD	1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p(Native), 25p(Native), 23.98p(over59.94p), 1080/24p(Just), 23.98p(Native), 720/59.94p, 50p																		
Output																				
Video Output	<table border="1"> <thead> <tr> <th>Format</th> <th>Connector</th> <th>Resolution</th> </tr> </thead> <tbody> <tr> <td>HDMI</td> <td>HDMI 2.0 connector</td> <td>4:2:2/10bit</td> </tr> <tr> <td>3G-SDI OUT</td> <td>SMPT292M/424M/ 75 Ω(BNC×1)</td> <td></td> </tr> </tbody> </table>	Format	Connector	Resolution	HDMI	HDMI 2.0 connector	4:2:2/10bit	3G-SDI OUT	SMPT292M/424M/ 75 Ω(BNC×1)											
Format	Connector	Resolution																		
HDMI	HDMI 2.0 connector	4:2:2/10bit																		
3G-SDI OUT	SMPT292M/424M/ 75 Ω(BNC×1)																			
Input/output																				
Input/Output Connector	<table border="1"> <thead> <tr> <th>Connector</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>LAN</td> <td>LAN terminal for IP control (RJ-45)</td> </tr> <tr> <td>RS-422</td> <td>CONTROL IN RS422A (RJ-45)</td> </tr> <tr> <td>MIC/LINE input</td> <td>AAC compatibility (compatible with IP only), Ø3.5 mm stereo mini jack</td> </tr> <tr> <td>During MIC input</td> <td>Input level: -40 dBV (0 dB=-1 V/Pa, 1 kHz), Supply voltage: 2.5 V±0.5 V(plug-in power compatible)</td> </tr> <tr> <td>During LINE input</td> <td>Input level: -10 dBV</td> </tr> </tbody> </table>	Connector	Function	LAN	LAN terminal for IP control (RJ-45)	RS-422	CONTROL IN RS422A (RJ-45)	MIC/LINE input	AAC compatibility (compatible with IP only), Ø3.5 mm stereo mini jack	During MIC input	Input level: -40 dBV (0 dB=-1 V/Pa, 1 kHz), Supply voltage: 2.5 V±0.5 V(plug-in power compatible)	During LINE input	Input level: -10 dBV							
Connector	Function																			
LAN	LAN terminal for IP control (RJ-45)																			
RS-422	CONTROL IN RS422A (RJ-45)																			
MIC/LINE input	AAC compatibility (compatible with IP only), Ø3.5 mm stereo mini jack																			
During MIC input	Input level: -40 dBV (0 dB=-1 V/Pa, 1 kHz), Supply voltage: 2.5 V±0.5 V(plug-in power compatible)																			
During LINE input	Input level: -10 dBV																			
Rotating platform part																				
Pan operating range	±175°																			
Tilt operating range	-30°~90° *1																			
IP Streaming																				
Image Streaming Mode	JPEG(MJPEG), H.264, H.265, NDI® HX version 2**3*(H.264), High Bandwidth NDI®																			
Image resolution	1920×1080, 1280×720, 640×360, 320×180																			
Image Transmission Setting	<table border="1"> <thead> <tr> <th>Resolution</th> <th>Transmission Type</th> <th>Max Bit Rate</th> </tr> </thead> <tbody> <tr> <td rowspan="2">H.264</td> <td>Unicast port(AUTO), Unicast port(MANUAL), Multicast port</td> <td>512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/16384kbps/20480kbps/24576kbps</td> </tr> <tr> <td>Frame rate: [At 60 Hz] 5 fps/15 fps/30 fps/60 fps [At 50 Hz] 5 fps/12.5 fps/25 fps/50 fps</td> <td></td> </tr> <tr> <td rowspan="2">H.265</td> <td>Transmission Type: Unicast port(AUTO), Unicast port (MANUAL), Multicast port</td> <td>1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/16384kbps/20480kbps/24576kbps</td> </tr> <tr> <td>Frame rate: [At 60 Hz] 60 fps/30 fps [At 50 Hz] 50 fps/25 fps</td> <td></td> </tr> <tr> <td>High Bandwidth NDI®**5</td> <td>Transmission Type: TCP/UDP, Unicast/Multicast</td> <td>Max Bit Rate: 250 Mbps</td> </tr> <tr> <td>NDI® HX version 2</td> <td>Transmission Type: TCP/UDP, Unicast/Multicast</td> <td></td> </tr> </tbody> </table>	Resolution	Transmission Type	Max Bit Rate	H.264	Unicast port(AUTO), Unicast port(MANUAL), Multicast port	512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/16384kbps/20480kbps/24576kbps	Frame rate: [At 60 Hz] 5 fps/15 fps/30 fps/60 fps [At 50 Hz] 5 fps/12.5 fps/25 fps/50 fps		H.265	Transmission Type: Unicast port(AUTO), Unicast port (MANUAL), Multicast port	1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/16384kbps/20480kbps/24576kbps	Frame rate: [At 60 Hz] 60 fps/30 fps [At 50 Hz] 50 fps/25 fps		High Bandwidth NDI®**5	Transmission Type: TCP/UDP, Unicast/Multicast	Max Bit Rate: 250 Mbps	NDI® HX version 2	Transmission Type: TCP/UDP, Unicast/Multicast	
Resolution	Transmission Type	Max Bit Rate																		
H.264	Unicast port(AUTO), Unicast port(MANUAL), Multicast port	512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/16384kbps/20480kbps/24576kbps																		
	Frame rate: [At 60 Hz] 5 fps/15 fps/30 fps/60 fps [At 50 Hz] 5 fps/12.5 fps/25 fps/50 fps																			
H.265	Transmission Type: Unicast port(AUTO), Unicast port (MANUAL), Multicast port	1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/16384kbps/20480kbps/24576kbps																		
	Frame rate: [At 60 Hz] 60 fps/30 fps [At 50 Hz] 50 fps/25 fps																			
High Bandwidth NDI®**5	Transmission Type: TCP/UDP, Unicast/Multicast	Max Bit Rate: 250 Mbps																		
NDI® HX version 2	Transmission Type: TCP/UDP, Unicast/Multicast																			

\*1 The main unit may appear in the video depending on the pan/tilt position.

\*2 NDI® is a new protocol developed by NewTek, Inc. that supports IP video production workflow.

\*3 NDI® is a registered trademark of NewTek, Inc. in the United States and other countries.

\*4 In this instance, NDI® is used to indicate low latency with high bandwidth NDI®, NDI®|HX is used to indicate high efficiency low bandwidth NDI®|HX. In the NDI®|HX mode, 4K video signals cannot be output. AW-UE80 supports NDI®|HX version 2 and Full HD output.

\*5 Full HD/60p output is supported.

\*This specification is a part. Please see the website for details.



For more information, please visit Panasonic web site

[https://pro-av.panasonic.net/en/?cid=ad\\_qr-mz\\_prd\\_mebd-ue80\\_211012\\_all\\_s\\_gj](https://pro-av.panasonic.net/en/?cid=ad_qr-mz_prd_mebd-ue80_211012_all_s_gj)



Broadcast and Professional AV Website



Contact Information



Facebook



Mobile App